

INTEGRATED CIRCUIT DEVICES HAVING SELF-ALIGNED CONTACT  
STRUCTURES AND METHODS OF FABRICATING SAME

ABSTRACT OF THE DISCLOSURE

An integrated circuit device, e.g., a memory device, includes a  
5 substrate, a first insulation layer on the substrate, and a contact pad disposed  
in the first insulation layer in direct contact with the substrate. A second  
insulation layer is disposed on the first insulation layer. A conductive pattern,  
e.g., a damascene bit line, is disposed in the second insulation layer. A conductive plug  
10 extends through the second insulation layer to contact the  
contact pad and is self-aligned to the conductive pattern. An insulation film  
may separate the conductive pattern and the conductive plug. A glue layer  
may be disposed between the conductive pattern and the second insulation  
layer. The device may further include a third insulation layer on the second  
insulation layer and the conductive pattern, and the conductive plug may  
15 extend through the second and third insulation layers.